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Time: 3 hrs.

Srinivas Institute of Technology Library, Mangalore

Max. Marks:100

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Third Semester B.E. Degree Examination, June/July 2011 **UNIX and Shell Programming**

			Note: Answer any FIVE full questions.						
	1	a. b.	With neat diagram, explain the architecture of only operating system. With the help of a diagram, explain the parent-child relationship. Explain the	(06 Marks) Unix file (06 Marks)					
		c.	Explain the following with examples: i) Absolute and Relative pathnames ii) Internal and External commands.	(08 Marks)					
	2		Give the significance of seven attributes of the ℓ s - ℓ command. What is file permissions? Explain how to change basic file permission with an example of the ℓ s - ℓ command.	(07 Marks) mple. (07 Marks) (06 Marks)					
			Explain the different modes in which a Vi editor works.	•					
	3	h	Explain the three standard files with respect to Unix operating system. Explain the mechanism of process creation. Explain the following commands with an example:	(06 Marks) (06 Marks)					
		v.	 i) Running jobs in Background (& and nohup) ii) Execute later (at and batch). 						
4	a.	What are Environment variables? Explain different environment variables available operating system.							
	b. с.	What are the differences between Softlink and Hardlink? Give examples.							

b. Explain BRE (Basic Regular Expression) character subset used for constructing regular (05 Marks) expressions. Give the syntax of a Sed command line and briefly explain each component of this line.

a. Explain "grep" command with all options.

- (07 Marks)
- a. Explain the use of test and [] to evaluate an expression in shell. (06 Marks) 6
 - b. What is shell programming? Write a shell program to create a menu which displays the list of files, current date, process status and current users of the system. (08 Marks)
 - c. Explain the shell features of "while" and "for" with syntax. (06 Marks)
- What is AWK? Explain any three built in functions in AWK. (07 Marks) 7
 - b. Write an AWK sequence to find HRA, DA and Netpay of an employee, where DA is 50% of basic, HRA is 12% of basic and the netpay is the sum of HRA, DA and Basic pay. (07 Marks)
 - (06 Marks) c. Explain the list and arrays in PERL.
- a. Explain string handling function in PERL and also write a program to find the number of 8 characters, words as well as to print the reverse of a given sentence. (08 Marks)
 - b. What do the Chop() and Split () functions do? Explain. (06 Marks) (06 Marks) c. Explain file handling in PERL.

